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## WHAT IS CLAIMED IS:

- 1. A method for oligomerizing at least one olefinic monomer, the method comprising the step of contacting a feed comprising the olefinic monomer under oligomerization conditions with a catalyst composition comprising the reaction product of:
- (a) a compound having a formula selected from the group consisting of  $M[S_2C_2(R^aR^b)]_2$  and  $M[S_2C_6(R^1R^2R^3R^4)]_2$ , wherein M is a late transition metal,  $R^a$ ,  $R^b$ ,  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are independently selected and may be the same or different and are selected from hydrogen, electron-withdrawing groups and unsubstituted and substituted hydrocarbyl groups; and
  - (b) an activating cocatalyst.
- $2. \qquad \text{The method of claim 1 wherein M is selected from one of Fe, Co,} \\ \text{Ni, Pd, and Pt.} \\$
- 3. The method of claim 1 wherein the compound is selected from the group consisting of bis(dithiobenzil) nickel, bis[1,2-bis(trifluoromethyl)ethylene-1,2-dithiolato] nickel, and derivatives thereof.
- 4. The method of claim 1 wherein the cocatalyst is selected from the group consisting of alkylaluminoxanes, aluminum alkyls, aluminum halides, alkylaluminum halides, Lewis acids other than any of the foregoing, alkylating agents and mixtures thereof.

- The method of claim 4 wherein the cocatalyst is methylaluminoxane.
- The method of claim 1 wherein the contacting is at a temperature in the range of from about 0°C to 100°C and at pressures of from about 15 to 2000 psig.
- The method of claim 1 wherein the contacting is conducted in a
  solvent.
  - The method of claim 1 wherein the contacting is conducted in a gas phase.
- 15 9. The method of claim 1 wherein said olefinic monomer is selected from the group consisting of ethylene, propylene, butenes, hexenes, octenes and mixtures thereof.
  - 10. The method of claim 9 wherein said olefinic monomer is ethylene.

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 The method of claim 1 wherein the catalyst composition comprises a supported catalyst composition. 10

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- The method of claim 11 wherein the supported catalyst composition comprises a silica supported catalyst composition.
- 5 13. The method of claim 1 wherein the feed contains contaminants.
  - The method of claim 13 wherein the contaminants comprise sulfurcontaining compounds.
  - The method of claim 14 wherein the sulfur-containing compounds comprise H<sub>2</sub>S, mercaptans, sulfides, thiopenes and derivatives thereof.
  - 16. A method for oligomerizing at least one olefinic monomer from a feed stream having sulfur-containing compounds, the method comprising the step of contacting the feed stream under oligomerization conditions with a catalyst composition comprising the reaction product of:
  - (a) a compound having a formula selected from the group consisting of M[S<sub>2</sub>C<sub>2</sub>(R<sup>a</sup>R<sup>b</sup>)]<sub>2</sub> and M[S<sub>2</sub>C<sub>6</sub>(R<sup>1</sup>R<sup>2</sup>R<sup>3</sup>R<sup>4</sup>)]<sub>2</sub>, wherein M is a late transition metal, R<sup>a</sup>, R<sup>b</sup>, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are independently selected and may be the same or different and are selected from hydrogen, electron-withdrawing groups and unsubstituted and substituted hydrocarbyl groups; and
    - (b) an activating cocatalyst.